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TOTORN - SKEET CHANNELS ONLY

RROJECT SUN STREAK (U)

CRV SESSION PROCEDURES REPORT

WARNING NOTICE: INTELLIGENCE SOURCES AND METHODS INVOLVED

CONTROL NUMBER: 8709 NICKNAME:

DATE OF SESSION: 24 Aug 87 TARGET COUNTRY: UR

REFERENCES: None SESSION NUMBER: 05

DATE OF REPORT: 25 Aug 87 MISSION STATUS: Continuing

TECHNIQUE UTILIZED: CRV SOURCE IDENTIFIER: 003

1. (S/NF/SK) INTERVIEWER TASKING: Tasking as listed in the previous sessions conducted with this Source on this project has not been changed or re-directed. This session was concerned with Phase II of the tasking package, the description of the characteristics and configuration of the Soviet prototype/counterpart to the US "Stealth" bomber. Other phases of the tasking package were not addressed in this session.

- 2. (S/NF/SK) SOURCE TASKING: Source was told this was a continuation of the last session and that He was to continue to focus His attention on the unusually configured aircraft that He reported on in His previous session. As the session progressed Source was tasked to locate, "another aircraft which may be similar to this aircraft but located in another global location". Source was further told to view this other aircraft, (#2) and to compare its capabilities and configuration to the first aircraft, (#1). Source was not provided any other cuing or descriptive data pertaining to either aircraft prior to this session.
- 3. INCLEMENCIES: There were no unusual occurrences or anomalies which may have affected the data provided by the Source during this session.
- (S/NF/SK) SUMMARY: Source furnished the attached summary which was prepared following the session and submitted to the Interviewer within 24 hours after the session. The completeness of the typewritten summary has been compared to the Interviewer's notes and all omissions, changes, and/or corrections have been verified as acceptable by the Interviewer. The information provided in the summary was found to be complete and did not require further

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modification, clarification or additions by the Interviewer. Source did provide some very detailed post-session sketches which are attached to this report for reference purposes.

Source's data during this session continued E:: , , , (S/NF/SK) COMMENTS: to be the same high quality and of increasing clarity and interest. Until such time as technical data becomes available to this office pertaining to Stealth and/or the Soviet prototype, no hard conclusions can be made concerning the veracity of the information provided thus far. Some of the information such as wing configuration, the use of electric/optic remote servos, flight characteristics, etc., may offer the analyst the necessary confirmatory data to base a reasonable analysis of the remaining Until such time as directed otherwise, however, it is recommended that this Source be withdrawn from this project, at least as a temporary measure, to preclude the distinct possibility of an AOL Drive, "peacocking" or analytic labelling. In the future this Source could be called upon again to provide more specific data as required but for the time being the risk of compromising his future utilization in this project would seem to be in jeopardy.

SG1J

GS-13 DAC
Interviewer

secret - noforn sreet channels only

(When filled in)

Page 1

Project: 8709	Start: 1259
Date: 24 aug 87	Sanctuary:
Session: 64 05	Target:
Source: 003	Finish:
Coordinate: 137 5∞ /112794	
Frontload:	
Paul, begin by focusing your concentration on	
Paul , begin by focusing your concentration on the high—treat plane you reported on during the last session. Ill provide you with additional tasking as we progress.	
last session. Ill provide you with additional	
tasking as we progress.	
Notes:	
1. No known or stated inclemencies. 2. weather could not be better	
3. Interviewer somewhat depressed- Cron rhyped out	
to Europe previous day). No Boig deal	
Secretary of the state of the s	F- LOFOXIA
shaed anamheils artu	

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Dra

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Aircraft is flown in isolation—during off-hours, over isolated areas, with knowledge of pending flights kept close hold. Terrain overflown is somewhat hilly, with gullies and low vegetation and "chewed-up" ground. Area is reminiscent of some of the terrain around Boise, and also south-central Nevada. aircraft flies, it's "like" the body or wing conformation is changed to enhance performance. There are a minimal amount of control surfaces; control linkages are non-standard "like" some sort of electro-optic connection, providing faster and more precise response. Frurposes of the aircraft are intrusion, interdiction, penetration. It's not intended for a highintensity combat environment against other aircraft. It carries missiles, perhaps exclusively; night may be its preferred operating time. Metallurgy involved is rather novel, involving laminates and metal bonding--"like" Teflon on a pan. Provides high strength, low weight, flexibility. The design sacrifices some maneuverability for other advantages: range, survivability, stability, low signatures. The two tails on this aircraft lean (Soure) inward. Alrcraft no. 2: λ Single tail slopes back, curved and recurved, with faint horizontal ridges. Smooth edges curving around. Wings larger, not as wide; body is "like" a slight hourglass shape--thicker, thinner, then thicker again, but gradually. engines are present, side-by-side. There are "stabilizing" ridges midwing on the top. Aircraft is "not as fancy" in design and construction. Performs in a "tighter envelope"--less forgiving of mishandling, its performance limits are generally lower, capabilities more limited; not as refined in manufacture, less attention to detail not directly function-related. concepts of acceleration, interdiction, interception, and countermeasure seem relevant to no. 2. It's "like" an "antidote" of sorts for some thereat or perceived weakness in an overall defensive capability. No. 1 is almost "expected" to be sent abroad or deep into non-national territory to do its work. could do such things but is out of preference kept closer to "home'. No. 2 is more rigid, has more metal content in its manufacture. It was designed and developed with the same general intent as was no. 1, but the formula is different, and not as successful, but easier to make lots of. Signatures are greater, but still reduced significantly from normal. In some sense it's as if someone wanted to imitate or make a copy, but didn't have all the necessary plans or pieces of information. Intent was also to "improve on" original design, with the generally mistaken idea that bigger/faster/more numerous was "better." The concept of "signatures" seems to deal with words such as "cross section", "density", "reflective", "noise", "heat", "turbulence", "deflecting", and "magnetic". The idea is to reduce "presence signature"—things that make it easier to see or to stop. No. 1 practically disappears; no. 2 does also but leaves bigger trace. Aircraft no. 2 is fueled by hose out of the ground on a concrete apron, apparently outside in the open. Aircraft no. 1 is refueled inside, form a hose on a spool; hose extends to outside. A truck pulls up outside; the person operating the

truck has no idea what he's refueling-pumps it "right through

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the wall". Aircraft no. 2 isn't as dark as no. 1—perhaps even some silver showing. Skin coating seems to be primarily on underbelly and leading edges. Provides economy and certain strength improvements at the sacrifice of small amount of increased signature.

FLIGHT

No. 1 flies low, NOE, terrain following and masking, relatively more maneuverable, acceptably fast, more airworthy, percent odds of accomplishing mission per aircraft is much higher. No. 2 flies faster, higher, straighter, less maneuverable-not as successful in low, NOE type travel. Performance best rendered at higher speeds; makes it less precise in handling and performance. Requires more of them to assure high percentage chance of mission accomplishment. Counterproductive-more of them creates larger signature gestalt to be discovered. No.2 is conservative in approach to a radical design which counteracts some of the advantages-older, known-to-bereliable techniques applied to the aircraft blunt the advantages of newly developed technology. Example: steel cables instead of electronic links slow reaction time and accuracy of controls; conventional control surfaces; fuel metering less precise and controllable; fire control older, not as versatile or precise.

WEAKNESSES

- No. 1: time consuming to produce. Complex. More can go wrong. Some systems barely out of experimental stage, unestablished track record—behavior under "field" conditions unknown. Can't defend itself very well. Lower top—end speed makes it difficult to escape a chase aircraft. Erosion of some sort is a hazard. Limited payload.
- No. 2: insufficiently maneuverable—can't handle NOE flying well enough. Variety of situations it can deal with is limited. Significantly shorter range, greater signature; brittle construction. Larger than should be, and heavier. Not as airworthy. Speed capability is sometimes a liability, increasing tell—tale signatures. Unsophisticated avionics and weapons systems.

STRENGTHS

- No. 1: _Maneuverable. Can "hide" much more effectively. Systems designed redundantly enhance survivability. Avionics and weapons control guarantee greater margin of performance, reaction and success. Longer range. Quieter. Better made, more built-in capabilities. Some characteristics and capabilities still unknown to those outside.
- No. 2: Faster; primary controls and systems have proven reliability. Many components already in production for other aircraft and systems and can be used, making it easier and cheaper to produce aircraft in quantity. Less skill required to train and to operate. Larger payload.

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SUI revitant conved hard green 5melle 14. Whee black write its "lilu" its got ålong verk - Stide out stelly when it flits more in fromat MBK enjoyably to watch 51/2 partire it in isolation - of home, or isolated meal. Times aben ased pept close hold. Area is somewhat hilly. Julley, In ingetation chewed my fround. Nearly wools. ferning we of some was wound Boise. Solls "Libe" when fly its body a wing conformation is changed to Approved For Repease 2000/08/08: CIA-RDP96-00789R000300580001-5

Approved For Release 2000/08/08: CIA-RDP96-00789R000300580001-5 5/2 on thind Control Surpress. Un = standard Control 1. To kage faster & more peins reporse. "like" electo-opticale convectors. Parpore 1 ntusions aro; dance , what it in peretration 4134 infants Combat en, roment Gil's not intender for missiles fear night Si'r usually gars by itself or with one or the oppers in thely separated. Als-"Like" "Spezuetz of the air." beetallage med is radia pool. Laminots & metal bour banding - "like" Teplan on a four. High strength low banding - "like" Teplan on a four. Gair fire maneuronabile weight. Plexibility, Derism Gair fire maneuronabile for other advantage - valy, Sani valility, Statility, Low Signotanes. while

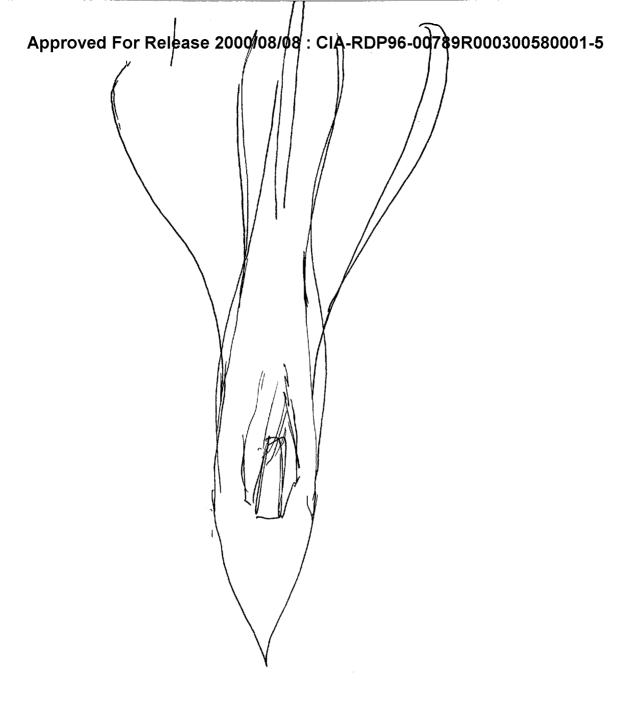
gren gren

Sour yelon

red

biade 5: lva

Sels smooth edge awing around. Wings larger, notas awide

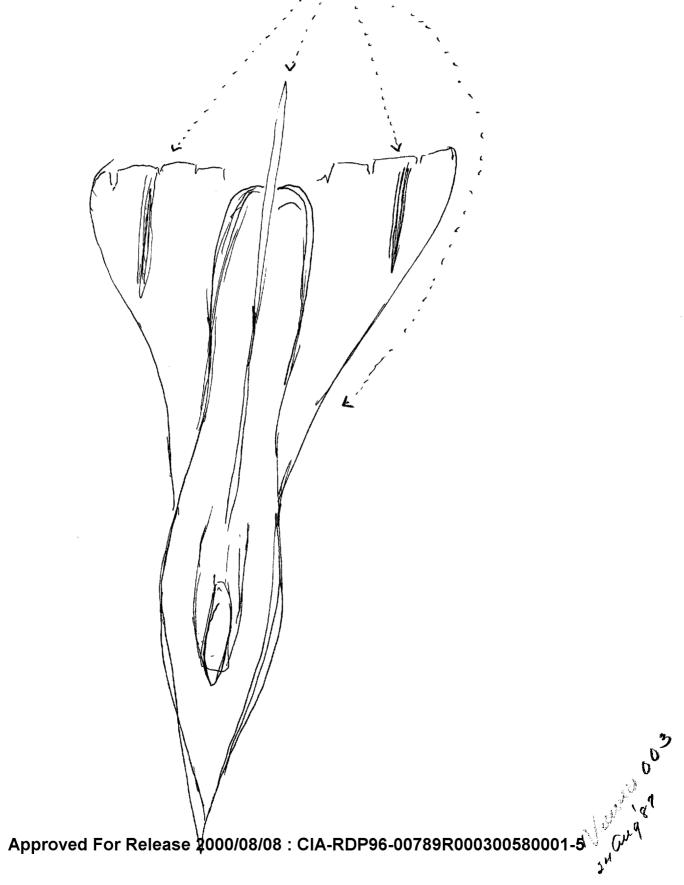


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1. SINGLE TAIL ASSEMBLY

2. STABLIZING GROOVES/RIDGES 3. GENERAL HOVE GLASS Shape



ラレエ Approved For Release 2000/98/08: CIA-RDF96-00789R000300580001-94/2 body - "like" bour glas shope - thirle, thin, then thick again - but graduals lug, hes Sid in Side 54/2 "Stabilizing" vites withwing top 24k tignter enndeger. "Not as fances" 29/2 Tolerance to approaching (imits in flying condition, votos gent. Limits are lower, performande apabilities are wore limited. Notas refilms in nampetare, less affentson to detail not directly function volated. Milenton jufadistin intoup Am Conformative "like" an and idde y sor's for some sheat or parality, beatered in an reall defension capability, Sulz No. I is almost "experted" to be sent amond on day into non-hatianal tour. For to dits work. No. 2 is well do south things but is part of preference best closer to home."

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SVI metalbi sich more tigit, mere wetal content- some intent as Who. I but formula is different, + not as successful,
but easier to make lots of. First, was larger, more power, less vange. 5, ynatures greates but 5/111 veduces fam normal. "Libe" someone wantes to make a copy, but better, but didn't have all the vereins plane. Als wanter to imitate, but diche have all the pieces - to to "jupone" on ovizional design was to make it biggar faster/word numerous. Cions sent on voiet heat met deflecting araquetri Levily Sels iden is to viduce "preserve signatures" this that wake Approved For Release 2660/08/08: CIA-RDP96-00789R000380580001/5 banes

Approved For Release 2000/08/08: CIA-RDP96-00789R000300580001-5 52 that BK So. Werooda Cornere Smell Lavm a ily aleft no. 2 is fooled by have out of the ground on ACA W. I is inside. Hose on spool extends to outside - tank tradeon trailer. It's "like" - pusandivides track 10.11truck pulls up outside, has be then what his facting pumps it ivight then will, NO.2 isn't as doubt as no. I - moght even some giber Showing. Skin was og pringarily n underbelly + leading edger temony + 5 thereof in up overer, Savifin Swallanoundy muesed 3 ignature. flight (c) no. 1 - 1m, NOE, fewain bollowing & masking; volatous, mod manemarible, vasarably fast, more a riveroly, per cent rods of accomplished in iss, in per aircoold is weath byther. Mr. 2 - faster higher, 5+ va istrer less naneuveaul- not Approved For Helease 2000/08/08: CIA-RDP96.00789B000300580001/5085 Preise in handling + performance. Pequities more Genterate some y advantage - older, thou weliable bedungues applied whent advantage of themby developed televoltages. "Libe" - stal cables in stood electronic links som vearties time of controls. Conventional control surpress. Ford wetering but precise to cartollable. Fine control older, not as beiser, he as precise.

weatherses (C)

Some systems almost esperimental, behavior under "Godos carlitions underson. Can't defend it set under Lower for end speed rabe it difficult to escape a shade aire vapt. Exosima of some sort is a hazard.

no. 2. - Insufficiently narodenable - any handle No E Flights well enough. Variots of 3, Frations it can dear him is limited. Shorter vaug, quales signature; brittle construction. Larger year strall he, + heavile. Not us a irworthy. Speed capability he, + heavile. Not us a irworthy. Speed capability is squatures. Unsuphistates ar ionics + wapons systems.

Approved For Release 2000/08/08: CIA-RDP96-00789R000300580001-5 52 strengths (C) M. I Wavewordell. Can "hide" work more effectively, so, Systems designed vedeundarity-entrance sour word of Avitures + works washe guarantee greate margin of performance, reaction + sources. Longer varye, directed, performance, reaction + sources. Longer varye, directed, greater made. More built for experiorities, some desastaristics + apparatities 5 till anknown key some desastaristics + apparatities 5 till anknown key ofhers. Faster, primary controls 4 5 ys tem established beliability. Men component abeads. In producting law be used. Moral early & chergly produced in grantity- her still required to regarded to regarded. payload. 1409